

understood by those of ordinary skill in the art, the term "coating," as set out in Applicant's claims, refers to a resistive film. The resistive film or coating is a type of electrically conductive material such as carbon, graphite, carbon fiber, mylar, or other metalized film. As stated in the specification, the "coating [is] an absorber-like material, in various shapes, over any type of substrate [that] is used to control the electrical properties of the matching network hybrid EMC absorber" (Application, page 10, lines 13-14). For at least these reasons, Applicant requests the Examiner to withdraw the 112 rejection of Applicant's claims.

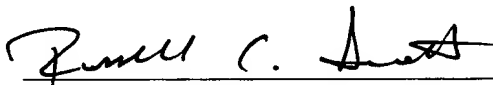
Applicant respectfully traverses the §102(b) rejection of claims 1, 4, 5, 6, 7, 9, 10, 13, 14, 16, 18, 20 as being anticipated by Ellam. Ellam fails to teach, disclose, or otherwise suggest a matching network hybrid electro-magnetic compatibility absorber with a coating that covers a predetermined portion of the absorber's surface as recited in at least independent claim 9. For at least this reason, Applicant urges the Examiner to withdraw the §102(b) rejection of the above noted claims.

CONCLUSION

In view of the foregoing remarks and for various other reasons, Applicant submits that claims 1-20 are allowable, and a Notice of Allowance is courteously solicited. If any impediment to the allowance of these claims remains after entry of this Preliminary Amendment, and such impediment could be alleviated during a telephone interview, the Examiner is invited to telephone the undersigned so that such issues may be resolved as expeditiously as possible.

Respectfully submitted,

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Attachment A (Pending Claims)

1 1. A matching network hybrid electro-magnetic compatibility absorber to provide
2 improved radio frequency absorbing performance in a frequency range of approximately 20 MHz
3 to approximately 500 MHz, comprising:

4 a big element;

5 a small element that is located beneath the big element;

6 the big element comprises a big element surface;

7 the small element comprises a small element surface;

8 a big element coating that covers a predetermined portion of the big element surface; and

9 a small element coating that covers a predetermined portion of the small element surface.

1 2. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 wherein the matching network hybrid electro-magnetic compatibility absorber comprises a
3 substantially pyramid-like shape;

4 the predetermined portion of the big element surface comprises less than an entirety of
5 the big element surface; and

6 the predetermined portion of the small element surface comprises less than an entirety of
7 the small element surface.

1 3. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 wherein at least one of the big element coating and the small element coating comprises a
3 substantially tear drop shape.

1 4. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 wherein at least one of the big element coating and the small element coating comprises a
3 predetermined thickness.

1 5. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 wherein the big element and the small element are separated by a predetermined distance.

1 6. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 wherein the big element comprises at least two surfaces; and
3 a distance between the at least two surfaces comprises a predetermined thickness.

1 7. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 wherein the big element coating comprises a first material; and
3 the small element coating comprises a second material.

1 8. The matching network hybrid electro-magnetic compatibility absorber of claim 1,
2 further comprising at least one additional big element coating that covers at least one additional
3 predetermined portion of the big element surface, the at least one additional predetermined
4 portion of the big element surface being less than an entirety of the big element surface.

1 9. A matching network hybrid electro-magnetic compatibility absorber to provide
2 improved radio frequency absorbing performance in a frequency range of approximately 20 MHz

3 to approximately 500 MHz, comprising:
4 a layer comprising a surface; and
5 a coating that covers a predetermined portion of the surface.

1 10. The matching network hybrid electro-magnetic compatibility absorber of claim 9,
2 wherein the coating comprises a predetermined shape.

1 11. The matching network hybrid electro-magnetic compatibility absorber of claim 9,
2 wherein the layer comprises at least one additional surface; and
3 at least one additional coating covers a predetermined portion of the at least one
4 additional surface, the predetermined portion of the at least one additional surface comprises less
5 than an entirety of the least one additional surface.

1 12. The matching network hybrid electro-magnetic compatibility absorber of claim 9,
2 further comprising at least one additional layer, the at least one additional layer comprises at
3 least one additional surface; and
4 at least one additional coating covers a predetermined portion of the at least one
5 additional surface, the predetermined portion of the at least one additional surface comprises less
6 than an entirety of the least one additional surface.

1 13. The matching network hybrid electro-magnetic compatibility absorber of claim 9,
2 further comprising at least two elements; and
3 at least one of the two elements comprises the layer.

1 14. The matching network hybrid electro-magnetic compatibility absorber of claim 9,
2 wherein the layer comprises at least one additional surface; and
3 a distance between the surface and the at least one additional surface comprises a
4 predetermined thickness.

1 15. The matching network hybrid electro-magnetic compatibility absorber of claim 9,
2 wherein the coating comprises a predetermined thickness; and
3 the predetermined portion of the surface comprises less than an entirety of the surface.

1 16. A matching network hybrid electro-magnetic compatibility absorber, comprising:
2 an absorber comprising a surface having a coating;
3 the coating comprising at least one of a coating type, a coating shape, a coating thickness,
4 and a coating placement; and
5 at least one of the coating type, the coating shape, the coating thickness, and the coating
6 placement is varied as a design parameter to permit absorption of radio frequency energy in a
7 frequency range extending from approximately 500 MHz to approximately 40 GHz.

1 17. The matching network hybrid electro-magnetic compatibility absorber of claim
2 16, wherein the coating shape comprises a substantially tear drop shape.

1 18. The matching network hybrid electro-magnetic compatibility absorber of claim
2 16, wherein the coating covers an entirety of the surface.

1 19. The matching network hybrid electro-magnetic compatibility absorber of claim
2 16, wherein the coating covers less than an entirety of the surface.

1 20. The matching network hybrid electro-magnetic compatibility absorber of claim
2 16, wherein the surface comprises at least one additional coating that comprises at least one of at
3 least one additional coating type, at least one additional coating shape, at least one additional
4 coating thickness, and at least one additional coating placement.